

# Chapter 1 & 2 Review

The following list is topics covered in your summer assignment. Each group will be responsible for providing the information for two or three topics to the remainder of the class. For each topic, summarize the relevant information, including the following points:

- Define topic and give importance to chemistry
- Give main points from reading
- Describe correct and incorrect usage (if applicable)
- If a calculation-based concept, provide correct method for solving problems along with at least one example for each calculation (can be from summer assignment problems)

## *Chapter One*

❖ Precision versus accuracy

❖ Significant figures

- Use in calculations

❖ Dimensional analysis

❖ Density

❖ Temperature

❖ Classification of matter/separation methods

❖ Mixtures and pure substances

❖ Changes in matter

## *Chapter Two*

❖ Fundamental chemical laws

- Law of definite proportion
- Law of multiple proportions

❖ History of the atom

- Dalton
- Avogadro
- Thomson
- Rutherford

- ❖ Structure of basic atom
  - Writing symbols

- ❖ Ions

- ❖ Isotopes

- ❖ Atomic mass from mass spec data

- ❖ Introduction to periodic table
  - Nonmetals, metals, & metalloids
  - Families